

B² Fig. 32 is an illustration showing the homology between the base sequence of the gene coding for the novel transferase derived from the *Sulfolobus solfataricus* strain KM1 (residues 455-2518 of SEQ ID NO: 1) and that derived from the *Sulfolobus acidocaldrius* strain ATCC 33909 (residues 816-2844 of SEQ ID NO: 3).

Please delete the paragraph on page 24, lines 21-24 and replace it with the following paragraph:

B³ Fig. 40 is an illustration showing the homology between the amino acid sequence of the novel transferase derived from the *Sulfolobus acidocaldrius* strain ATCC 33909 (SEQ ID NO: 8) and that derived from the *Sulfolobus solfataricus* strain KM1 (SEQ ID NO: 6). The full-length *Sulfolobus solfataricus* strain KM1 protein (prior to post-translational modification) coded for by SEQ ID NO: 5 is shown in SEQ ID NO: 63.

Please delete the paragraph on page 24, lines 25-29 and replace it with the following paragraph:

B⁴ Fig. 41 is an illustration showing the homology between the base sequence of the gene coding for the novel transferase derived from the *Sulfolobus acidocaldrius* strain ATCC 33909 (residues 1176-2843 of SEQ ID NO: 7) and that derived from the *Sulfolobus solfataricus* strain KM1 (residues 642-2315 of SEQ ID NO: 5).

Please delete the paragraph on page 149, line 34 to page 150, line 13 and replace it with the following paragraph:

B⁵ According to information about the partial amino acid sequences of the novel *Sulfolobus solfataricus* strain KM1, which is determined in Example I-9, oligonucleotide DNA primers are prepared by using a DNA synthesizer (Model 381 manufactured by Applied Biosystems Co.). Their sequence were as follows.

DN-1

Amino Acid Sequence

N terminus AspGluPheArgGluSer C terminus (SEQ ID NO: 59)

DNA Primer 5' TTTACGAAAAACCTCATC 3' (SEQ ID NO: 28)

Base Sequence C T T G T T

DN-8

Amino Acid Sequence

135 N terminus AspAsnIleGluTyrArgGly C terminus (SEQ ID NO: 60)

DNA Primer 5' GATAACATAGAATACAGAGG 3' (SEQ ID NO: 29)

Base Sequence T T G T G

Please delete the paragraph on page 172, lines 12-29 and replace it with the following paragraph:

According to information about the partial amino acid sequences determined in Example II-20, oligonucleotide DNA primers are prepared by using a DNA synthesizer (Model 381 manufactured by Applied Biosystems Co.). Their sequence were as follows.

AP-10

Amino Acid Sequence (SEQ ID NO: 61)

N terminus Pro Ala Ser Arg Tyr Gln Pro C terminus

DNA Primer 5' AGCTAGTGAGATATCAACC 3' (SEQ ID NO: 57)

Base Sequence A G C C G

BE AP-11

(complementary strand)

Amino Acid Sequence (SEQ ID NO: 62)

N terminus Asp Val Phe Val Tyr Asp Gly Lys C terminus

DNA Primer 5' TTTTCCATCATAAACAAAAACATC 3'

(SEQ ID NO: 58)

Base Sequence C A G T G T

C

Please replace the Sequence Listing filed on October 25, 2000, pages 180-248, with the attached Sequence Listing and renumber pages 1-37 as pages 180-216 and pages 249-271 consecutively thereafter.